PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD-710 (E. ORDNANCE ROAD) AND THE ENTRANCE TO

GLEN BURNIE MALL IN ANNE ARUNDEL COUNTY.

MD-710 (E. ORDNANCE ROAD) IS ASSUMED TO RUN IN AN EAST WEST DIRECTION.

INTERSECTION OPERATION

GENERAL

A SYSTEM READY BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT WILL BE INSTALLED AT THE INTERSECTION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. MAINLINE MD-710 (E. ORDNANCE ROAD) OPERATES CONCURRENTLY WITH EXCLUSIVE/PERMISSIVE LEFT TURNS. THE ENTRANCE TO THE GLEN BURNIE MALL AND THE SHOPPING CENTER OPERATE AS A SIDE STREET SPLIT. THIS INTERSECTION IS PART OF THE MD-2 INTERCONNECT SYSTEM.

VIDEO CAMERAS SHALL PROVIDE THE PRESENCE DETECTION, STREET LIGHTING AND STREET NAME SIGNS SHALL BE UPDATED TO CURRENT STANDARDS.

PROJECT CONTACTS:

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 841-1003

JAMES FOLDEN, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (410) 841-1031

JOHN MAYS, ASSISTANT DISTRICT ENGINEER - MAINTENANCE

PHONE: (410) 841-1013

MIKE HUBER, UTILITY ENGINEER PHONE: (410) 787-7652

MR. RICHARD DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. EDWARD RODENHIZER, CHIEF SIGNAL OPERATIONS SECT. PHONE: (410) 787-7652

MR. SONNY BAILEY, CHIEF SIGN SHOP PHONE: (410) 787-7676

THE POWER COMPANY REPRESENTATIVE: BALTIMORE GAS AND ELECTRIC 7317 PARKWAY DRIVE SOUTH HANOVER, MARYLAND 21076 (410) 850-4620

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104.00 OF THE STANDARDS FOR HIGHWAYS & INCIDENTAL STRUCTURES.

EQUIPMENT LIST 'C'

Phone: 410-729-1004 Facsimile: 410-729-1009

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR

Williams Associates-Engineers, P.A. 251 Najoles Road, Suite E Millersville, Maryland 21108

CENTURY ENGINEERING CONSULTING ENGINEERS - PLANNERS 10710 GILROY ROAD HUNT VALLEY, MD 21031

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	QUA	NTITY	
900000	LOCAL CONTROLLER AND CABINET SIZE 6 W/ ALL NECESSARY EQUIPMENT HOUSED BASE MOUNTED CABINET		1 EA	
973023 1 EA 1 EA 1 EA	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: R3-5(L) "LEFT ONLY" (30"X36") MAST ARM MOUNT R3-5(R) "RIGHT ONLY" (30"X36") MAST ARM MOUNT R3-6(MOD) "LEFT, RIGHT, AND THRU" (30"X36") MAST	ARM	116 SF MOUNT	
2 EA	D-3(2) (16" X VAR.) MAST ARM MOUNT (SINGLE FACE) "W. Ordnance Rd"			,
1 EA 1 EA	GUIDE SHIELD ASSEMBLY (30X51) GROUND MOUNT) "WEST, MD 710, RIGHT ARROW" "EAST, MD 710, RIGHT ARROW" GUIDE SHIELD ASSEMBLY (48X75) POLE MOUNT)			
1 EA 1 EA	"WEST, MD 710, LEFT ARROW" "EAST, MD 710, LEFT ARROW"			

EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

a, b, c, d

S. T. U. V

W• X

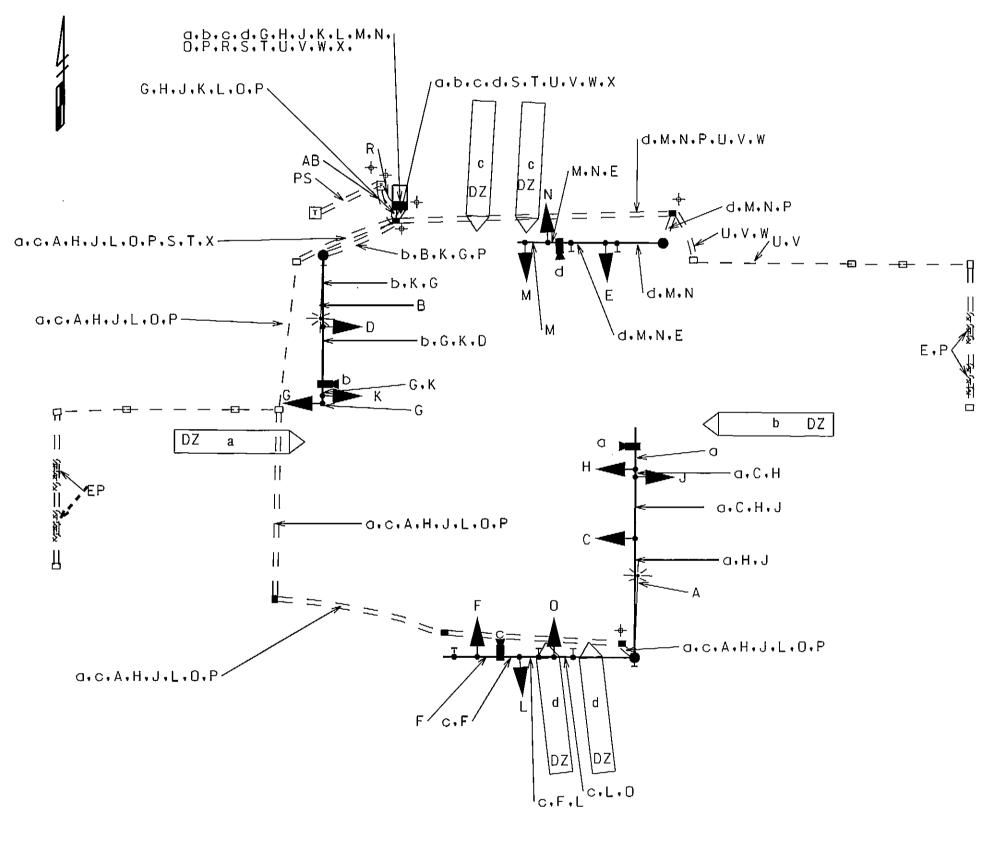
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A. B

CATEGOR CODE NO		ANT I TY
100000	— MAINTENANCE OF TRAFFIC	1 EA
120784	TEMP ORANGE FENCE	100 LF
203030	TEST PIT EXCAVATION	3 CY
585619	24" WHITE HEAT APPL. PERMANENT THERMO. PAVEMENT MARKING	80 LF
634300	TYPE A COMBINATION CURB AND GUTTER, 12" GUTTER PAN, 8" CURB	40 LF
648140	4' MONOLITHIC MEDIAN (A-1)	5 LF
655105	5 INCH CONCRETE SIDEWALK	300 SF
800000	8' LED SIGNAL HEAD SECTION	12 EA
800000	ADJUST HANDHOLE. NEW FRAME AND COVER	1 EA
800000	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT LUMINAIRE AND	
800000	MAST ARM POLE & 38 FT MAST ARM ANY "T" DIMENSION	2 EA
800000 800000	DETECTABLE WARNING SURFACE REMOVE & DISPOSE OF EXISTING EQUIPMENT	30 SF 1 EA
800000	TWIN MAST ARM POLE & 50/60 MAST ARMS ANY "T" DIMENSION	1 EA
800000	VIDEO CAMERA & CABLE ANY LENGTH TO CONTROLLER	4 EA
800000 800000	DISCONNECT, PULL BACK & RE-ROUTE EXISTING CABLES SCHEDULE 80 PVC CONDUIT UP TO 4" - BORED	660 LF 115 LF
800000	SCHEDULE 80 PVC CONDUIT UP TO 4" - BURED SCHEDULE 80 PVC CONDUIT UP TO 4" - SLOTTED	50 LF
800000	SCHEDULE 80 PVC CONDUIT UP TO 4" - TRENCHED	150 LF
800000	WOOD SIGN POST UP TO 4X6	16 LF
800000	INSTALL OVERHEAD OR GROUND MOUNTED SIGN	116 SF
800000	RELOCATE EXISTING SIGN	1 EA
802501 807202	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE METERED SERVICE PEDESTAL	370 LF 1 EA
810022	CARLE 1_CONDUCTOR NO 9 AWC_TURNATUWN	40 LE
811001	INSTALL ELECTRICAL HAND-HOLE	6 EA
860284	12" LED SIGNAL SECTION	36 EA
860292	CUT CLEAN GALVANIZE AND CAP	1 EA
861107	ELECTRICAL CABLE -5 CONDUCTOR (NO.14 AWG)	90 LF
861108	ELECTRICAL CABLE -7 CONDUCTOR (NO.14 AWG)	1660 LF
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG TRAY CABLE)	345 LF
871202	INSTALL CONTROLLER & CABINET, BASE MOUNT	1 EA

Phase 1 + 6 1 + 6 Change Phase 2+5 R 2 + 5 Change Phase 2 + 6 2 + 6 Change Phase 3 3 Change Phase 4 R 4 Change Flashing FL/Y |FL/Y |FL/Y | FL/Y |FL/Y | FL/Y | FL/Y | FL/R |FL/R |FL/R |FL/R Operation

PHASE CHART



WIRING KEY

- VIDEO DETECTION CAMERA 3 CONDUCTOR NO.18AWG	LEAD-IN	CABLE

- 2 CONDUCTOR NO. 12 AWG TRAY CABLE C. D. E. F. - 5 CONDUCTOR NO. 14 AWG ELECTRIC CABLE

- 7 CONDUCTOR NO. 14 AWG ELECTRIC CABLE G, H, J, K, L, M, N, O - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

Phase 1 + 5

1 & 5 Change

EXISTING NON INVASIVE MICRO-LOOP PROBE LEADS,
 TO BE PULLED BACK AND RE- ROUTED TO NEW CONTROLLER

EXISTING INTERCONNECT TO BE PULLED BACK, RE-ROUTE TO NEW CONTROLLER (SEE NOTE)

- 1 CONDUCTOR NO. 8 AWG-THHN/THWN ELECTRIC CABLE

- EXISTING NON-INVASIVE MICRO-LOOP PROBE - PROPOSED SERVICE FEED

- DETECTION ZONE

- GROUND ROD (3/4"DIA X 10 FT. LENGTH)

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

MD 710 (E. ORDNANCE RD.) AT ENTRANCE TO GLEN BURNIE MALL

TRAFFIC ENGINEERING DESIGN DIVISION

CENTERAI	INFORMATION	PIAN
GENERAL	INTOWNATION	T TIWIA

SCALE NONE	ADVERTISED DATE	2-20-2009 co	NTRACT NO	
DESIGNED BY	WAE	COUNTY_	ANNE ARUNDEL	
DRAWN BY	WAE	LOGMILE	02071000.16	
CHECKED BY	JAH 7/1/09	TIMS NO		
F.A.P. NO		TOD NO		

TS NO. 374E-GI DRAWING --2 OF 2 SHEET NO. 1.9 OF 3.1

PLOTTED: \$DATETIME\$ FILE: \$FILE\$